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## PATENT ABSTRACTS OF JAPAN

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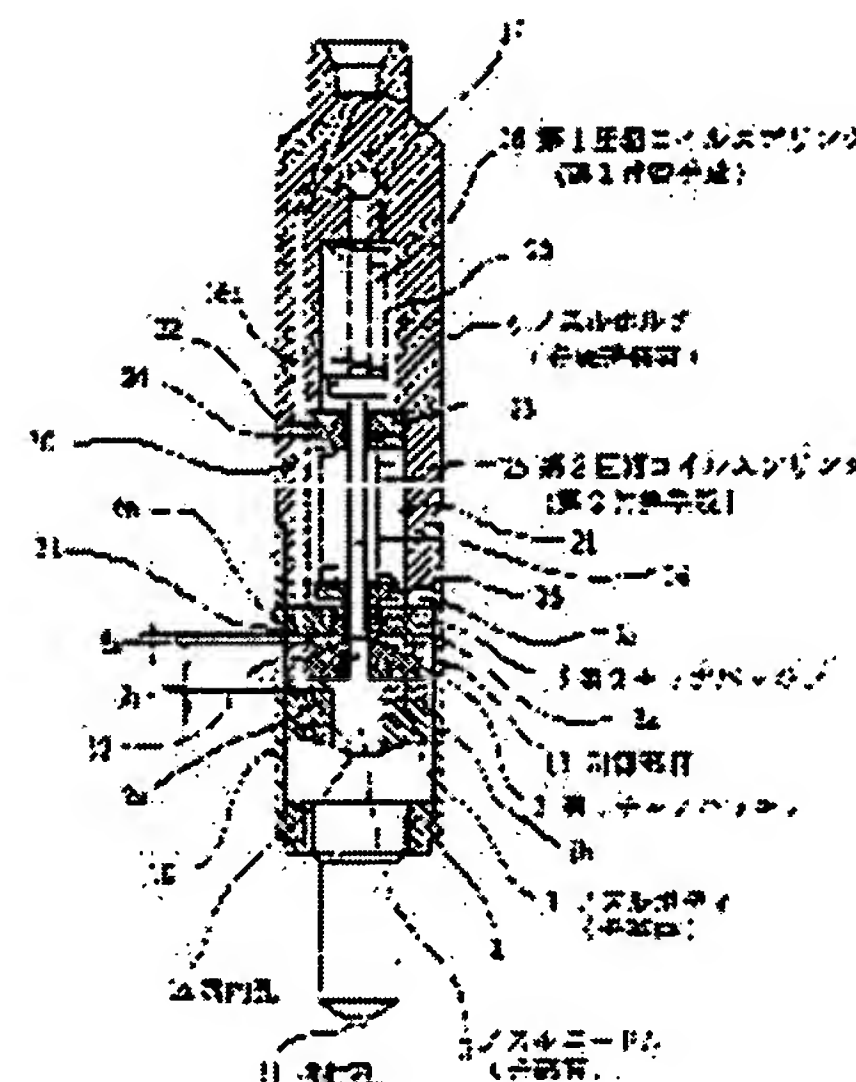
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## (54) FUEL INJECTION VALVE

## (57)Abstract:

PURPOSE: To perform a uniform setting of an amount of injection of fuel for each of injection valves by a method wherein a plurality of tip packings and a control member are disposed between a valve main body and a valve holding member and an initial lifting amount and a maximum lifting amount are set by a clearance formed outside the valve holding member.

CONSTITUTION: As a fuel pressure is more than the first valve opening pressure set by the first compression coil spring 18, a nozzle needle 2 and a pushing rod 16 integrally start to lift up against the first compression coil spring 18. As this lifting amount reaches l1, a needle shoulder part 2b abuts against an end surface 13a of a control member 3. In addition, as the fuel pressure is increased and the fuel pressure reaches the second valve opening pressure set by a combined force of the first and second compression coil springs 18 and 25, the needle valve shoulder part 2b pushes up the control member 13 and further pushes up a spring seat 26 against the second compression coil spring 25. Then, a main injection is started in response to a needle lifting amount.



## LEGAL STATUS

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